

# King Tao Jason Ng



## PROFILE SUMMARY

I am an experienced data scientist with expertise in data science, machine learning, natural language processing, and software engineering, with a strong focus on ensuring compliance with financial market regulations.

## CONTACT DETAILS

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## PERSONAL INFORMATION

Citizenship: **Australian**

Languages: **English, Chinese**

## SKILLS

- Leadership, People Management
- Project Management, Business Analysis, Vendor Management
- Data Governance
- Machine Learning, Statistics, Natural Language Processing
- Software Engineering, Software Quality Assurance
- Databricks, Elastic Stack, Microsoft Power BI
- Python, R, C, C++, KDB+/Q

## EXPERIENCE

### SENIOR DATA SCIENTIST

**Jul 2022 - Present**

*Chief Data and Analytics Office, ASIC*

- ◇ Led the implementation of the Licensing ML Proof of Concept, Knowledge Management Metadata Extraction, and Lessons Learned Lite Review
- ◇ Supervised and mentored data analysts, fostering professional growth and skill development
- ◇ Provided leadership in the ML framework, ensuring best practices in analytics and machine learning

### SESSIONAL TEACHING ACADEMIC

**Feb 2022 - Jun 2022**

*School of Computing, Macquarie University*

- ◇ Tutored and led coursework for Document Processing and Semantic Technologies (COMP3220)

### SENIOR ANALYTICS PLATFORM OWNER

**Jul 2021 - Jul 2022**

*Chief Data and Analytics Office, ASIC*

- ◇ Led the promotion and management of Databricks, RStudio Servers, Python Servers, and the Data Science Lab, ensuring optimal performance
- ◇ Proposed the Databricks roadmap, outlining onboarding strategies, workflow setup, and best practices to enhance efficiency and collaboration among data analysts

### DATA SCIENTIST

**Oct 2019 - Jul 2021**

*Chief Data and Analytics Office, ASIC*

- ◇ Led the development and implementation of NLP Prospectuses, leveraging NLP to extract insights and improve document analysis

### DATA SCIENTIST

**Aug 2017 - Jun 2019**

*School of Computer Science, University of Sydney*

- ◇ Designed and developed a Researcher Collaboration Recommendation System using Python and D3.js, enabling data-driven connections and enhancing research networking through interactive visualizations

### ANALYST

**Jul 2016 - Oct 2019**

*Market Infrastructure, ASIC*

- ◇ Proposed and implemented a Wash Trade Detection system using KDB+/Q, enhancing market surveillance and regulatory compliance
- ◇ Designed and developed a Market Data Analytics Hub using the Elastic Stack, enabling real-time data analysis and improved decision-making

### ANALYST

**Jan 2013 - Jul 2016**

*Market & Participant Supervision, ASIC*

- ◇ Led the development and implementation of a Market Analysis and Intelligence Surveillance System, improving market cleanliness
- ◇ Drafted the comprehensive Technology and Analytics Capability Review, assessing current capabilities and identifying opportunities in data analytics

## ACHIEVEMENTS

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- **Australia Day Achievement Award**, ASIC, Launched Market Analysis and Intelligence Surveillance System
- **ARI Award**, Aristocrat Technologies Australia
- **Competent Communicator**, Toastmasters International

### INTRANET PROGRAMMER

**Oct 2011 - Dec 2011**

*Information and Communications Technology, Scots College*

- ◇ Oversaw the maintenance and management of IBM DB2, ensuring database reliability, performance, and security

### DOMAIN ANALYST

**Mar 2011 - May 2011**

*Wagering Technology, Tabcorp Holdings Limited*

- ◇ Led and managed requirements gathering for the Customer Loyalty Project, ensuring alignment with business objectives and stakeholder needs

### SOFTWARE ENGINEER

**Jul 2008 - Mar 2011**

*Studio Development, Aristocrat Technologies Australia*

- ◇ Designed and developed gaming applications using C and C++, creating engaging user experiences

### GRADUATE SOFTWARE ENGINEER

**Jul 2007 - Jul 2008**

*Platform Development, Aristocrat Technologies Australia*

- ◇ Designed and developed networking protocols for casino management systems using C and C++, ensuring secure and efficient communication across the platform

### GRADUATE TEST ENGINEER

**Jan 2007 - Jul 2007**

*Software Integrity Testing, Aristocrat Technologies Australia*

- ◇ Developed comprehensive test plans and executed unit and integration tests, ensuring high-quality software delivery and system reliability

## EDUCATION

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### MASTER OF RESEARCH, Macquarie University

**Jul 2021 - Oct 2023**

- ◇ Thesis titled *Identifying Causal Directions from Text: Unsupervised Learning using Bayesian Framework*

### MASTER OF DATA SCIENCE, University of Sydney

**Mar 2016 - Jul 2019**

- ◇ Thesis titled *Academic Capability Mapping*

### MASTER OF ECONOMICS, University of Sydney

**Mar 2008 - Jul 2012**

### MASTER OF INFORMATION TECHNOLOGY, UNSW

**Jul 2005 - Dec 2007**

### BACHELOR OF SCIENCE, UNSW

**Jul 2001 - Mar 2005**

## PUBLICATIONS

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Exploring Causal Directions through Word Occurrences: Semi-supervised Bayesian Classification Framework, **King Tao Jason Ng** and Diego Mollá. *The 21st Annual Workshop of the Australasian Language Technology Association, Melbourne, VIC, Australia, November 29 - December 1, 2023*

Hierarchical Word Mover Distance for Collaboration Recommender System, Chao Sun, **King Tao Jason Ng**, Philip Henville and Roman Marchant. *The 16th Australasian Data Mining Conference, AusDM 2018, Bathurst, NSW, Australia, November 28 - 30, 2018, Revised Selected Papers*